Guess Paper Biology inter -I

Al-Qadir Jinnah Science Academy Mallian Kalan

Guess Paper 2021 (ALP)

INTER PARITI

امتحان میں 100% کامیابی کی گل نٹی

BIOLOGY

☆ پیپر Setter کے ذہن کو مد نظرر کھ کر تیار کیے گئے سوالات

🖈 یادر کھیں! اب وقت انتہائی کم رہ گیاہے۔

*صرف 15دن کے اندر بورڈ امتحان کی مکمل تیاری کویں۔

المُ رِّين فَقْدِر الْعَالِيةِ اور حَلِ شِده معروضي موالات كالم

MCQ S.Qs L.Qs 337 221 15

پنجاب کے تمام بورڈ کے لیے (اعلیٰ نمبروں کے حصول کی ضمانت)

ہمیں تشہیر کی خواہش نہیں بسس روسٹنی کی ہے کی کو مت بتانا ہے دیے ہم نے حبلائے ہیں

Objective Type

2 O a) 3 Th a) 4 W a) 5 Re) Heterocyts Vhich of the one in the fol) Amoeba eserve food material in C	b) Phylum ✓b) Genera ive cells of cyanobacteria an ✓b) Akinete lowing is a prokaryote b) Algae	✓c) Species c) Classes re called c) Hormogonia	d) Class d) Family d) All of these
a) 3 Th a) 4 W a) 5 Re) Species he thick walled reproduct) Heterocyts Vhich of the one in the fol) Amoeba eserve food material in C	ive cells of cyanobacteria an √b) Akinete lowing is a prokaryote	re called	
3 Th a) 4 W a) 5 Re	he thick walled reproduct) Heterocyts Vhich of the one in the fol) Amoeba eserve food material in C	ive cells of cyanobacteria an √b) Akinete lowing is a prokaryote	re called	
a) 4 W a) 5 Re) Heterocyts Vhich of the one in the fol) Amoeba eserve food material in C	✓b) Akinete lowing is a prokaryote		d) All of these
4 W a)	Which of the one in the fol) Amoeba eserve food material in C	lowing is a prokaryote	c) Hormogonia	d) All of these
a) 5 Re) Amoeba eserve food material in C		A.	The state of the s
5 Re	eserve food material in C	b) Algae		
			c) Fungi	✓d) Blue green algae
		yanobacteria is	. 620	
a)) Starch	√ b) Glycogen	c) Fats	d) All of these
6 A	n example of aerobic bac	terium is		
a)) Camplyobacter	b) E.Coli	✓c) Pseudomonas	d) Spirochete
7 W	Vhich one of t he followin	g is anaerobic bacteria		
a)) E.Coli	b) Spirochete	✓c) Pseudomonas	d) Campylobacter
8 Ba	acteria without any flage	la are called		
a)) Peritrichous	✓b) Atrichous	c) Monotrichous	d) None of these
9 Re	eserve food material in cy	/anobacteria is		
✓	a) Glycogen	b) Cellulose	c) Glucose	d) Starch
10 W	Which is the anaerobic bac	terium		
✓	a) Spirochete	b) Pseudomonas	c) Campylobacter	d) E.Coli
11 Sp	pirochete is a bacterium			
a)) Aerobic	√ b) Anaerobic	c) Facultivate	d) None of these
12 Th	he pore by which the wat	er leaves the body of spong	es is called	
a)) Ostia	b) Mouth	c) Anus	√d) Osculum
13 Th	he inner layer of most spo	onges is called		
a)) Pinacoderm	✓b) Choanoderm	c) Endoderm	d) Epiderm
14 A	n example of beautiful ar	nd delicate sponge called Ve	nus flower basket is	
a)) Sycon	b) Leucosolenia	c) Euplectella	√ d) Spongilla
15 In	n sponges asexual reprodu	uction takes place by buding	g . The internal buds are call	ed
a)) Globules	√ b) Gemmules	c) Endosperm	d) Cyst
16 Ex	xcess gastric secretion is a	an important factor of		
a)) Obesity	b) Piles	c) Food poisoning	√d) Peptic ulcer
17 Fr	resh saliva has pH			
a)) 4	√ b) 6	c) 8	d) 7.3
18 Ta	aste buds of tongue play i	mportant role in food		
a)) Digestion	√ b) Selection	c) Lubrication	d) Mastication
19 W	Which of the following is a	parasitic plant ?		
a)) Drosera	b) Dionea	✓c) Cuscuta	d) Sarracenia
20 pl	H of fresh saliva is nearly			
✓	′ a) 6	b) 7	c) 8	d) 9
21 Ex	xcess gastric secretions is	an important factor of		

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	✓a) Peptic ulcer	b) Obesity	c) Piles	d) Food poisoning
22	Length of the duodenum	is		
	a) 20 - 25 cm	√b) 20 - 25 meters	c) 20 - 25 mm	d) 20 - 25 Km
23	Which one of the followi	ng is not a ciliate ?		
	a) Stentor	b) Paramecuim	✓c) Trypanosoma	d) Vortecella
24	One or small diploid mic	ronodei of ciliates function in	١.	
	a) Sexual process	√ b) Sheath	c) Pellicle	d) Cuticle
25	Test of forminifera is ma	de of .		_ \\d/ \\
	a) Silica	b) Calcium	√c) Calcium phosphate	d) Chitin
26	Mosquito Injects			
	a) Merozoites	b) Oocytes	c) Gametocytes	√d) Sporozoites
27	Apicomplexans move by			
	a) Tube feet	b) Cilia	✓c) Flexing	d) Pseudopodia
28	Mosquito injects plasmo	dium to human in the form o	of.	
	✓a) Sporozoites	b) Gametocytes	c) Merozoites	d) Cysts
29	The sexual process is exh	ibited by most cilites by .		
	a) Binary fission	√b) Conjugation	c) Budding	d) Fertilization
30	Sleeping sickness is sprea	ad by .		
	✓a) Tsetse fly	b) Mosquito	c) Trypanosoma	d) Plasmoduim
31	Study of tissue is called .			,
	a) Microbiology	b) Morphology	✓c) Histology	d) Anatomy
32	The branch of Biology wi	nich deals with the study of e	environment relations of or	ganisms is called .
	a) Morphology	✓b) Ecology	c) Evolution	d) Zoogeography
33	The study of parasite is o	alled .	ý	'
	a) Paleontology	b) Histology	c) Mircorbiology	d) Parasitology
34	Internal morphology is a	lso called .		
	a) Physiology	√b) Anatomy	c) Histology	d) Paleontology
35	The branch of biology wh	nich deals with study of ance	stral history is .	
	a) Genetics	b) Zoogerography	c) Evolution	√d) Paleontology
36	Biology is short of laws b	ecause of .		
	✓a) Exclusive nature of	b) Large population of	c) Less falsification	d) Less tentation
	life	human		
37	The tentative explanatio	n of observation .		
	a) Hypothesis	b) Deduction	c) Law	d) Theory
38	In deductive reasoning w	e move from .		
	√a) General to specific	b) General to general	c) Specific to general	d) Specific to specific
39	If a theory survives and o	ontinues to be supported by	experimental evidence be	comes a .
	a) Hypothesis	b) Universal formula	✓c) Scientific law	d) Deduction
40	Transgenic plants can be	propagated by .		
	a) Gene manipulation	✓b) Cloning	c) Genetic engineering	d) Tissue culture technique
41	Which of the following a	re being used as bio - pestici	des ?	
	✓a) Bacteria	b) Fungi	c) Viruses	d) Algae
42	Pasteurization is a techni		1 .	

	a) Edward jenner	b) Robert Koch	c) Chamberlandt	✓d) Louis Pasteur
43	The percentage by weigh	t of RNA in a bacterial cell is	i.	
	a) 0.25 %	b) 2 %	c) 3 %	√ d) 6 %
44	Which of the following is	a group of organic compou	nds ?	
	a) Lipids , nucleic acids	✓b) Carbohydrates ,	c) Proteins , acids , lipids	d) Carbon dioxide , acid
	and nitric acid	lipids , nucleic acids		bases
45	Of the total weight of a b	acterial cell, carbohydrates	constitute only .	
	a) 2 %	b) 1 %	√ c) 3 %	d) 4 %
46	18 % of the total weight of	of a mammalian cell is the .		
	a) Water	✓b) Proteins	c) Carbohydrates	d) Lipids
47	The total weight of a mar	nmalian cell , DNA forms .		
	a) 1 %	b) 1.1 %	c) 6 %	√d) 0.25 %
48	In bacterial cells the water	er percentage is .	A 2 A 1	,,
	✓a) 70 %	b) 40 %	c) 60 %	d) 50 %
49		ates in mammalian cell is .		9 -1 -6
	a) 1 %	b) 2 %	c) 3 %	√ d) 4 %
50	In free state , glucose in p		10,0%	V 0) 4 70
	✓a) Dates	b) Amylose	c) Glycogen	d) Cellulose
51	Most abundant carbohyd		c) diveogen	d) cellulose
21	a) Statch	b) Glycogen	(a) Callidan	d) Agar
	<u> </u>	b) diycogen	✓c) Cellulose	u) Agai
52	Cotton is a pure.	h) Dalvas ethavide	a) Callulana	d) Dath a R h
	✓a) Cellulose	b) Polysaccharide	c) Cellulose	d) Both a & b
53	Animals obtain carbohyd		10	1) 61
	a) Glucose	✓b) Starch	c) Sucrose	d) Glycogen
54	Which one of following is	900 9000	Lian	
	a) Rubber	√b) Chitin	c) Cutin	d) Cholesterol
55		f compound related to fatty		
	a) Proteins	✓b) Lipid	c) Carbohydrate	d) Nucleic Acid
56	Lipids are insoluble in .			
	✓a) Water	b) Chloroform	c) Alcohol	d) Carbon tetra chloride
57	Which one of the following	ng is not lipid ?		
	a) Cholesterol	b) Wax	c) Terpenes	✓d) Keratin
58	Iron containing protein is			
	a) Cytochrome	√ b) Ferredoxin	c) Plastocyanin	d) Plastoquinone
59	Which of the following is	not a fibrous protein .		
	a) Keratin	b) Myocin	c) Fibrin	√d) Hormones
60	In the			
	✓a) 3-6	b) 4-6	c) 5-6	d) 6-6
61	7000	rmones and hemoglobin are		-
	a) Carbohydrates	√b) Globular proteins	c) Fibrous proteins	d) Lipids
62	· · ·	ole of which functional class	<u> </u>	, , , <u>-</u>
	a) Contractile	b) Structural	✓c) Transport	d) Regulatory
63		with maintaining primary st		-162.000.1
03	√a) Disculfide bond	b) Peptide bond	c) Ester bond	d) Hydrogen bond

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64	Type of bond principally as	ssociated with maintaining	alpha helix shape of protei	n;
	a) Disulphide bond	b) Peptide bond	c) Ester bond	√d) Hydrogen bond
65	Which of the following str	ucture is best represents st	ructure of haemoglobin?	
	a) Primary	b) Secondary	c) Tertiary	✓d) Quaternary
66	Amino acids are linked to	each other by .		
	a) Ester bond	b) Glysocidic	c) Hydrophobic	√d) Peptide bond
67	An amino acid contains an	amino group and a carbox	yl group attached to the sa	me.
	✓a) Carbon atom	b) Hydrogen atom	c) Nitrogen atom	d) Oxygen atom
68	Poisons like cyanide , antib	piotics , anti-metabolites ar	nd some drugs are example	s of .
	a) Holoenzymes	√b) Inhibitors	c) Coenzymes	d) Enzymes
69	An inhibitor is a chemical			
	a) Enzyme	b) Protein	✓c) Substance	d) None of these
70	An inhibitor react with ena	yme but not transformed i	nto	
	a) Enzyme	√b) Product	c) Co-enzyme	d) None of these
71	The inhibitor which may d	estroy the globular structu	re of enzyme is .	
	a) Competitive	b) Non-competitive	✓c) Irreversible	d) Reversible
72	Irreversible inhibitors forn	n which bond with active si	te?	
	a) Hydrogen bonds	b) Ionic bonds	✓c) Covalent bonds	d) Hydrophobic bonds
73	The reversible inhibitors u	sually constitute		
	a) Strong linkage with	b) No linkage with	✓c) Weak linkage with	d) Medium linkage with
	enzyme	enzyme	enzyme	enzyme
74	Non-competitive Inhibitor	s form enzyme inhibitor co	mplex at a point other thar	the .
	a) Catalytic site	✓b) Active site	c) Binding site	d) Non-catalytic site
75	Three dimensional globula	r protein is .	<u> </u>	
	a) Starch	b) Glucose	c) Antibiotic	√ d) Enzyme
76	Enzyme lowers down the	energy of .		
	a) Kinetic	b) Potential	√c) Activation	d) Ionic
77	Small amounts of an			
	a) Protein	b) Lipid	✓c) Enzyme	d) None of these
78	Some enzymes require a	for their proper function	ing .	
	a) Co-enzyme	✓b) Co-factor	c) Holoenzyme	d) Apoenzyme
79	Pepsinogen is an			
	a) Active	√ b) Inactive	c) Inhibitor	d) None of these
80	Which statement about er	zyme is not true ?		
	a) They consist of	b) They change the rate	c) They are sensitive to	√d) They are non-
	proteins, with or without	of catalyzed reaction	heat	specific in their action
-01	a non-protein part			
81	An enzyme is a three dime a) Fibrous	b) Elastic	(a) Clabert	d) Insoluble
		<u>'</u>	✓c) Globular	a) insoluble
82	Induced fit model was pro		a) Januar	d\ Dastaur
- 00	a) Emil Fisher	✓b) Koshland	c) Jenner	d) Pasteur
83	Lock and key model was p	· · ·	a) Dudalah Viraham	d) Lavana Olsan
0.0	√a) Emil Fisher	b) Koshland	c) Rudolph Virchow	d) Lorenz Oken
84	Any factor that can alter the	ne cnemistry and shape of a	an enzyme can effect its rat	e of .

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	a) Activity	b) Hydrolysis	✓c) Catalysis	d) Photolysis
85	The catalytic activity of a	n enzyme is restricted to its s	mall portion called .	
	✓a) Active site	b) Allosteric site	c) Binding site	d) Catalytic site
86	Koshland in 1959 propos	ed the modified form of .		
	a) Fluid mosaic model	b) Unit membrane model	c) Induce Fit model	√d) Lock and key model
87	The active site of the enz	yme is made up of two defin	ite regions i.e., the binding	site and the
	a) Non-binding site	b) Non-catalytic site	c) Inactive site	√d) Catalytic site
88	The non protein part of e	nzyme responsible for its pro	per functioning is known a	-Sh. "3003007 - 2000
	a) Substarte	✓b) Cofactor	c) Reactant	d) Product
89		ibiotics , anti-metabolites an	d some drugs are example	The second secon
	a) Holoenzymes	✓b) Inhibitors	c) Coenzymes	d) Enzymes
90	An inhibitor is a chemical	<u> </u>		
	a) Enzyme	b) Protein	✓c) Substance	d) None of these
91	An inhibitor react with e	nzyme but not transformed in	nto	7 7
	a) Enzyme	✓b) Product	c) Co-enzyme	d) None of these
92	The inhibitor which may	destroy the globular structur	e of enzyme is .	
	a) Competitive	b) Non-competitive	✓c) Irreversible	d) Reversible
93	Irreversible inhibitors for	m which bond with active sit	e ?	
	a) Hydrogen bonds	b) Ionic bonds	√c) Covalent bonds	d) Hydrophobic bonds
94	The reversible inhibitors			
	a) Strong linkage with	b) No linkage with	√c) Wear linkage with	d) Medium linkage with
	enzyme	enzyme	enzyme	enzyme
95	Robert Brown reported t			
	a) Lysosome	b) Ribosomes	c) Mitochondria	✓d) Nucleus
96	Nucleus can be seen in a			
	a) Mature cell	✓b) Non-dividing cell	c) Germinating cell	d) Dividing cell
97	Nucleus contains soluble	10000 100000	T	
	a) Protoplasm	b) Cytoplasm	✓c) Nucleoplasm	d) Nuclear sap
98	The size of prokaryotic ri	7000	T	1 11 222
	a) 30S	b) 50S	√ c) 70S	d) 80S
99	Prokaryotes include blue			
4.5.	a) Viruses	✓b) Bacteria	c) Protozoans	d) Protists
100	The prokaryotic cell can o	· · · · · · · · · · · · · · · · · · ·	-> > 4 - 1 1	* N = 1
	a) Multiple fission	b) Mitosis	c) Meiosis	✓d) Binary fission
101	ACCORDING TORS, TORSE,	tive feature of prokaryotic ce		
	a) Cell membrane	b) Hereditary material	c) Ribosomes	✓d) Cell wall
102	4000	enclature was devised by .		
	a) E-Chatton	b) Robert Whittaker	c) Ernst Hackle	✓d) Carlous Linnaeus
103	The Common name for se			
	a) Onion	✓b) Brinjal	c) Potato	d) Amaltas
104		f taxonomy , developed durir	ng the 18th century by C. Li	nnaeus , the first word of
	an organism's name is its a) Species		c) Race	d) Family
105	Linnaeus published his lis	✓b) Genus	c) Nace	u) railily
105	Littiaeus published his ils	ot or alliffials III .		

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	a) 1747	b) 1748	√ c) 1758	d) 1753	
106	In the scientific name of or	nion , Allium cepa , the Alliu	m belongs to its .		
	✓a) Genus	b) Group	c) Species	d) Family	
107	Scientific name has advantage of having .				
	a) No scientific basis	✓b) Scientific basis and universally accepted	c) Same organisms having different names in different areas	d) Same name applied to different organism	
108	Carlous Linnaeus took the	scientific name from .			
	a) Greek word	b) Arabic word	✓c) Latin word	d) Urdu word	
109	Initially , the classification	was based on .	A.	11/40	
	a) Genetic features	b) Physiology	✓c) Morphology	d) Cytology	
110	The basic unit of classificat	tion is .			
	a) Genus	b) Phylum	c) Class	✓d) Species	
111	Solanum esculentum is the	e scientific name of .			
	a) Potato	b) Tobacco	c) Onion	√d) Tomato	
112	Phylogeny describes a spe	<u>'</u>		-,	
	a) Morphological similarities with other species	✓b) Evolutionary history	c) Reproductive compatibilities with other species	d) Geographical distribution	
113		700	d by Robert Whittaker , me	mber of the kingdom	
	✓a) Multicellular	b) Either unicellular or multicelliular	c) Motile	d) Have sexual reproduction	
114	Five kingdom system of cla	assification proposed by Ma	rgulis and Schwartz is not ba	ased on .	
	a) Genetics	✓b) Nucleic Acid	c) Cellular organization	d) Mode of nutrition	
115	A third Kingdom protista v	vas proposed to accommod	ate Euglena like organisms a	nd bacteria , in 1866 by .	
	a) E-Chatton	✓b) Ernst Hackel	c) Linnaeus Carlous	d) Aristotle	
116	The system of classification and ingestion was proposed	2007 THEORY	cipal modes of nutrition pho	otosynthesis , absorption	
	✓a) Robert Whittaker	b) Carlous Linnaeus	c) Margulis & Schawartz	d) Ernst Hackel	
117	Kingdom Animalia include	700.000			
	✓a) Consumers	b) Reducers	c) Producers	d) Decomposers	
118	Bactria range in size from	about 0.1 to			
	a) 500	√ b) 600	c) 700	d) 800	
119	The smallest bacteria are a	approximately the size of the	e largest viruses i.e.		
	a) Paramyxoviruses	b) Adenoviruses	c) Parvoviruses	√d) Poxviruses	
120	The diameter of staphyloc	occus and streptococcus is a	bout .		
	a) 100 - 200 nm	b) 1.5 - 2	√ c) 0.75 - 1.25	d) 2 - 6	
121	An outer flexible covering	of ciliates is .			
	a) Cell wall	√ b) Pellicle	c) Sheath	d) Cuticle	
122	Amoebic dysentery in .				
	a) Amoeba	b) Plasmodium	✓c) Entamoeba histolytica	d) Trypanosoma	
123	Entamoeba histolytica cau	se amoebic .			
	a) Cholera	b) Fever	✓c) Dysentery	d) Migraine	

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124	The tsetse fly of African co	ountries transmits trypanos	ome , the cause of .	-
	√a) Sleeping sickness	b) Measles	c) Lung infection	d) Malaria
125	The protozoans having tw	o kinds of nuclei .		
	a) Zooflagellates	b) Amoeba	✓c) Ciliates	d) Actinopods
126	Amoeba moves and obtain	ns food by means of .		
	a) Flagella	√b) Pseudopodia	c) Flexing	d) Cilia
127	Pelomyxa palustris is an ex	xample of		
	a) Bacterium	b) Cilliate	c) Algae	✓d) Amocba
128	Pelomyxa Palustris is com	monly called .		
	a) Entamoeba	b) Trypanosoma	c) Trichonymphas	✓d) Giant amoeba
129	The example of zooflagella	ates is .		
	a) Forams	b) Voritcella	c) Entamoeba	✓d) Trypanosoma
130	One of the most unusual p	protest phylum is that of .		
	√a) Dinoflagellates	b) Zooflagellates	c) Euglenoids	d) Oomycotes
131	What regulation in freshw	ater ciliates is controlled by	special organelles called.	
	a) Vacuoles	b) Golgi apparatus	✓c) Contractile vacuoles	d) Lysosomes
132	Complex specialized flagel	lates with many flagella are		
	√a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
133	The protists that live as sy	mbionts in the guts of term	ites and help in the digestic	n of dry wood are .
	√a) Trichonymphas	b) Trypanosoma	c) Euglena	d) Vorticella
134	Members of phylum chrys	ophyta are commonly calle	d .	
	a) Brown Algae	b) Red Algae	c) Dinoflagellates	✓d) Diatoms
135	Algae which take part in b	uilding coral reefs along wit	th coral animals are .	
	√a) Red algae	b) Brown algae	c) Green algae	d) Diatoms
136	Diatoms belongs to phylur	n.		
	a) Rhodophyta	b) Phaeophyta	✓c) Chrysophyta	d) Pyrrophyta
137	The largest brown algae a	re called .		
	a) Diatoms	✓b) Kelps	c) Dinoflagellates	d) Gelidium
138	The edible algae is .			
	√ a) Mushroom	b) Kelps	c) Dinoflagellates	d) Diatoms
139	Length of brown algae ran	ge from few centimeters to	•	
	a) 170 meters	√b) 75 meters	c) 70 meters	d) 75 cm
140	Most green algae possess	cell wall with .		
	✓a) Cellulose	b) Chitin	c) Siliea	d) Pectin
141	Phyco erythrin is found is	•		
	a) Green algae	√ b) Red algae	c) Brown algae	d) Blue green algae
142	Which of the following po	ssess leaf like blades , stem	like stipes , and root like an	choring holdfast ?
	a) Eucalyptus	b) Agaricus	✓c) Kelps	d) Phytophthora
143	Most green algae possess			
	√ a) Cellulose	b) Chitin	c) Peptidoglycan	d) Pectin
144	Which phylum of algae do .	not have forms with flagell	ated motile cells in at least	one stage of their life cycle
	a) Euglenophyta	b) Chlorophyta	✓c) Rhodophyta	d) Phaeophyta
145	Which is member of Pyrro	phyta ?		

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	a) Ulva	√ b) Gonyaulax	c) Fuscus	d) Frequilaria
146	Marine algae are also sour	rce of many useful substance	es like .	
	a) Algin	b) Agar	c) Carrageenan	√d) All of these
147	Oomycotes are close relat	ives of the .		
	a) Algae	√ b) Fungi	c) Protozoa	d) Bacteria
148		mous roles in human histor	y as they were the cause of	Irish potato famine of the
140	19th century ?		T , _	4%
	a) Entomoeba histolytica	b) Physarum	c) Trypanosoma	✓d) Phytophthora
140	Disempelium / slima mold	polycephalum	gambiense cytoplasm that can grow in o	infestans
149	a) 5 cm	b) 10 cm	c) 20 cm	3000
450	·	_ ·	c) 20 cm	√ d) 30 cm
150	Cell walls of Oomycotes co		c) Peptidoglycan	d) Chicagon
454	✓a) Cellulose	b) Chitin		d) Glycogen
151	<u> </u>	bodies formed of threadlike	TO THE TOTAL THE	d) Tuines
4=0	a) Fibres	b) Yarns	✓c) Hyphae	d) Twines
152		that is a model organism is		d\ Facenille de
	✓a) Physarum polycephahum	b) Ustilago tritici	c) Phytophthora infestans	d) Frequilaria
153	' ' '	ber of pathogenic organisms	s including	
155	a) Physarum	b) Rhodotorula	✓c) Phytophthora	d) Candida albicans
	polycephalum	b) Kilodotordia	infestans	d) Calidida albicalis
154		orb nutrients from living ho	7000000	
	✓a) Haustoria	b) Roots	c) Rhizoids	d) Gametangia
155	The cell wall of fungus con		-,	a, camera gra
	a) Cellulose	√b) Chitin	c) Calcium carbonate	d) None of these
156	Non-septate hyphae are ca			,
	a) Monokaryotic	b) Dikaryotic	c) Mononucleatic	d) Coenocytic
157	The body of a fungus (exc	ept yeast) is called .		
	a) Thallus	b) Hyphae	✓c) Mycelium	d) Prothallus
158	The non - hyphal unicellul	ar fungi are .		
	✓a) Yeasts	b) Morels	c) Truffles	d) Puffballs
159	Some fungi are used to co	ntrol environmental pollution	on , the process is called	
	a) Biological control	√ b) Bioremediation	c) Fungal culture	d) Hydroponic
160	Lichens are very good	of air quality .		
	a) Bioremediation	✓b) Bioindicators	c) Both a & b	d) None of these
161	Kindgdom plantae mainly	includes eukaryotic , autotr	ophic , multicellullar , non m	otile organisms which
101	develop from			
	a) Zygote	✓b) Embryo	c) Seed	d) None of these
162	The sporophyte of bryoph			
	a) Haploid	✓b) Diploid	c) Triploid	d) Tetraploid
163	<u> </u>	e the amphibians of the plan		
	a) Angiosperms	✓b) Bryophytes	c) Trachaeophytes	d) Spermatophytes
164	Production of two types o			
	a) Homogamy	b) Heterogamy	c) Sporophyte	√d) Gametopmyte

Gue	ss Paper Biology inter	-I A	Al-Qadir Jinnah Science Ac	ademy Mallian Kalan
165	Which of the following is	a modified leaf ?		
	a) Tendril	b) Thorn	✓c) Flower	d) Both b & c
166	The process of evolution	of leaf was completed in	n more than .	
	a) 15 - 16 million year	b) 15 - 19 million year	c) 15 - 17 million year	✓d) 15 - 20 million year
167	Which of the following we	ere the first plants that	formed true leaves and roots?	
	a) Psilopsids	✓b) Lycopods	c) Megaphylls	d) Ferns
168	When the forn in immatu	re and young , it is coile	d, this pattern of development	is called .
	a) Nutation	b) Circum nutation	√c) Circinate vernation	d) Reticulate vernation
169	Large leaves having divide	ed veins and veinlets wi	th an expanded leaf blade or lar	nina are known as .
	a) Microphylls	√b) Megaphylls	c) Frond	d) Compound leaf
170	The leaves are called fron	ds in class .		
	a) Angiospermae	√ b) Filicineae	c) Gymnospermae	d) Sphenopsida
171	Sori are protected by the	bent margin of the leaf	let , forming false .	
	√ a) Indusium	b) Stomium	c) Annulus	d) Capsule
172	The microspores produce	d inside mircroporangia	germinated to form .	
	a) Male gametophyte	b) Microgametophyte	c) Female gematophyte	√d) Both a & b
173	It is a dry , indehiscent fru	uit in which fruit wall is	completely fused with seed coat	
	a) Dryopsis	b) Testa	✓c) Caryopsis	d) Legume
174	Development of protective	e layers around megas	porangium is called .	
	a) Microsporangium	b) Embryo sac	✓c) Integument	d) None of these
175	The distal end of the meg	asporangium became n	nodified for capturing	
	a) Fruit	b) Seed	c) Zygote	√ d) Pollen
176	In this group animals with	ı symmetry have l	been included .	
	✓a) Radial	b) Bilateral	c) Both a & b	d) None of these
177	In grade radiate the anim	al is divide into two equ	al halves and are	
	✓a) Mirror image	b) Opposite	c) Right angle	d) None of these
178	All the animals in grade ra	adiate are		
	a) Triploblastic	✓b) Diploblastic	c) Tetrablastic	d) Both a & b
179	Water is more viscous tha	7000 1000		
	a) 10 times	b) 20 times	√c) 50 times	d) 100 times
180	1 1800	C000.00C007	ne organism and its environment	1
	√a) Respiration	b) Cellular respiration	c) External respiration	d) Anaerobic respiration
181	Oxygen contents of fresh			T
	✓a) 200 ml / litre	b) 100 ml / litre	c) 10 ml / litre	d) 150 ml / litre
182	During photorespiration,			
	√a) Mitochondria	b) Ribosome	c) Golgi Bodies	d) Chloroplast
183			the membrane bounded organe	
	a) Mitochondria	b) Ribosome	✓c) Peroxisome	d) Golgi Bodies
184	The main sites of exchang			I n =
	✓a) Stomata	b) Lenticel	c) Cuticle	d) Epidermis
185	Respiration activity which			I n
	a) Respiration	✓b) Photorespiration		d) None of these
186	In the mitochondria wher	e two glycine molecule:	s are converted into	

Gue	ss Paper Biology inter-	-I AI-Qa	adir Jinnah Science Ac	ademy Mallian Kalan
	a) Glycine	√ b) Serine	c) ATP	d) Glycolate
187	Guard cells become turgid	and stoma or pore		
	a) Close	√b) Open	c) Both a & b	d) None of these
188	is incorrect about guard ce	ells .		
	a) Have chloroplasts	✓b) Connected to surrounding cells by plasmodesmata	c) Surrounding stoma	d) Bean shaped
189	According to one hypothe	sis, stomata opens due to tl	he active transport of .	
	a) Sodium	✓b) Potassium	c) Sulphur	d) Nitrogen
190	A circulatory fluid is the	V D/ 1 Occassion	A.	
	✓a) Blood	b) Water	c) Secretion	d) Hormones
191	A contractile pumping dev	·	-,	
	a) Lung	b) Liver	✓c) Heart	d) Vein
192	Normal pH of human bloo	·	Verriedie	1 3, 10
132	a) 4.4	b) 5.4	c) 6.4	√ d) 7.4
193	Which of the following is r	'	-7-51.	¥ W/ 7T
133	a) Produced by basophills	b) Causes dilation of blood capillaries	c) Cause inflammation	✓d) Released by Eosinophils
194	Platelets are fragments of	200000		2000
	a) Microkaryoctyes	b) Erythrocytes	✓c) Megakaryocytes	d) Leucocytes
195		ıman male blood contain RB	The state of the s	.,,
	a) 4 - 4.5 millions	√ b) 5 - 5.5 millions	c) 6 - 6.5 millions	d) 7 - 7.5 millions
196	· .	itute percent by weight of p	· ·	,
	✓a)7-9%	b) 9 - 11 %	c) 11 - 13 %	d) 13 - 15 %
197	Histamine is produced by .			•
	a) Neutrphils	b) Eosinoophils	✓c) Basophils	d) Moncytes
198	Thalassaemia is also called	1. /////		
	✓a) Cooley's anaemia	b) Thomas anaemia	c) Pete's anaemia	d) Mendl's anaemia
199	Enlargement of spleen is s	een in .	,	
	a) Blood cancer	b) Thalassaemia	c) Odema	√d) Hepatitis
200	The substance which inhib	170.00	1 -	-1 Pennse
	√a) Heparin	b) Histamine	c) Fibrin	d) Albumin
201		body again foregind invade	·	
	a) Circulatory system	✓b) Lymphatic system	c) Heart	d) None of these
202	Antibodies are produced f		'	
	a) Eosinphils	b) Basophils	c) Monocytes	√d) Lymphocytes
203	Antiserum is a serum cont	· ·	,	
	✓a) Antibodies	b) Antigen	c) Antibiotics	d) Anticancer chemicals
204	In cell mediated response	1	,	
	a) B - cells	✓b) T - cells	c) Lymphs	d) None of these
205	· ·	a foreign substance, often a		
	✓a) Antibodies	b) Antiseptic	c) Both a & b	d) None of these
206	,	imulate the production of a		
	a) Antibodies	✓b) Vaccines	c) Antigen	d) None of these

207	ss Paper Biology into Naturally induced imme		Qadir Jinnah Science Ac	adding maman radan
	✓a) Auto immune	b) Anti serum	c) Passive immunity	d) None of these
208	Curved or comma shap	ed bacteria are called .		,
	✓a) Vibrio	b) Spirilum	c) Spirochetes	d) Bacilli
209		rs, their arrangement is .√E	xample of rod shaped bacter	ia is .
	a) Spirocheta	b) H.microbium	c) S.Aureus	✓d) Escherichia coli
210	When cocci form long o	hain of cells then arrangeme	nt is called as .	
	a) Tetrad	b) Diplococcus	c) Sarcina	√d) Streptococci
211	A tetrad is a square of .			
	a) 2 Cocci	√b) 4 Cocci	c) 6 Cocci	d) 8 Cocci
212	When the division is in	three planes , it will produce	a.	
	✓a) Sarcina arrangemer	nt b) Tetrad arrangement	c) Bivalent arrangement	d) Helical arrangement
213	, ,	l is random planes it will prod	duce a arrangement.	
	✓a) Staphylococcus	b) Diplococcus	c) Streptococcus	d) Bacillococcus
214	 	ent only at one pole of bacte	1 202 202 207 1 202 205	
	a) Monotrichous	b) Peritrichous	c) Amphitrichous	√d) Lophotrichous
215	Bacterial pathogenicity			v a, zopnomenous
	a) Envelope of all cell	b) Capsule	✓c) Slime	d) Cell wall
216	Important vector in mo		- cy simile	-,
	a) Nucleoid	✓b) Plasmid	c) Mesosome	d) Ribosome
217	,	· · ·	tant forms and develop durin	· ·
	a) Late stage of cell	b) Differentiation of	✓c) Differentiation of	d) During conjugation
	growth	reproductive cells	vegetative cells	a, carring conjugation
218	When tuft of flagella is	present at each of two poles		
	a) Artichous	b) Lopthorichous	c) Peritrichous	√d) Amphitrichous
219	Mesosomes are interna	2000 10000 10000		T ay ranpinaranous
	a) Cell wall	b) Golgi complex	✓c) Cell memebrane	d) Endoplasmic reticulum
220	Cell wall is absent in .	100000	V of commentation	, ,
	a) E.Coli	√b) Mycoplasma	c) Vibrio	d) Spriochete
221	Pili are made up of spec	1	-,	-1-4
	✓a) Pillin	b) Flagellin	c) Tubulin	d) Myosin
222	Bacteria without any fla	0004		
	a) Amphitrichous	b) Monotrichous	c) Lophotrichous	√d) Atrichous
223	90,01,010,0	ve bacteria are stained .		V a) Atticitous
	a) Pink	b) Red	c) Green	√d) Purple
224	Which one is present is		e, orcen	v a) raipie
224	✓a) Cell membrane	b) Mesosome	c) Ribosomes	d) Plasmid
225	Primary function of flag		c) moosomes	a) i iasima
223	a) Induction	✓b) Motility	c) Conjugation	d) Adhesion
226	· ·	amentous appendages prese		a) Adilesion
220	a) Cilia	b) Fimbrie	c) Flagella	(d) Dili
227	·	pathogenicity to bacteria and		√d) Pili
227	a) Pinocytosis		c) Invasion	d) Evocutosis
	a) Pinocytosis	√b) Phagocytosis	c) invasion	d) Exocytosis

	a) Teichoic acid	b) Lipoprotein	√c) Peptidoglycan	d) Polysaccharide	
229	Spores are resistant to a	dverse physical environmen	t condition such as .	•	
	a) High temperature	b) Desiccation	c) Chemical agents	√d) All of these	
230	Dormant , thick-walled ,	desiccation resistant forms	present inside bacteria are .		
	✓a) Cysts	b) Exospores	c) Endospores	d) Mesosome	
231	Bacteria that cannot syn	thesize their organic compo	unds from simple inorganic s	ubstances are .	
	a) Autotrophs	✓b) Heterotrophs	c) Symbionts	d) Lichen	
232	Chemosynthetic bacteri	a oxidize inorganic compour	ds like .	. W. A.	
	a) Ammonia	b) Nitrogen	c) Sulphur	✓d) All of these	
233	Bacteria which get their	food from dead organic mat	tter are .		
	a) Parasitic	√ b) Saprophytic	c) Symbiotic	d) Chemosynthetic	
234	Which one is a microaer	ophilic bacterium ?			
	a) E.coil	b) Spirochete	c) Pseudomonas	✓d) Camphylobacter	
235	Which of the following i	s anaerobic bacteria ?		<i>y</i> ** <i>y</i>	
	a) Pseudomonas	b) Escherichia coli	✓c) Spirochete	d) Campylobacter	
236	Asexual reproduction in bacteria occurs by .				
	a) Conjugation	b) Transduction	c) Transformation	√d) Binary Fission	
237	Bacteria divided at expo	nential rate during .			
	a) Stationary phase	b) Decline phase	✓c) Log phase	d) Log phase	
238	Which is an aerobic bact	terium ?			
	a) E.coli	b) Spirochete	c) Campylobacter	✓d) Pseudomonas	
239	The interval of time until the completion of next division is known as .				
	a) Incubation time	√b) Generation time	c) Multiplication time	d) Cell cycle	
240	The heat that causes coa	agulation of proteins and kill	s the microbes .		
	✓a) Moist heat	b) Dry heat	c) Intense heat	d) Mild heat	
241	The heat that causes ox	idation of chemical constitue	ents of microbes and kills the	m.	
	a) Moist heat	√b) Dry heat	c) Intense heat	d) Mild heat	
242	Membrane filters are us	ed to sterilize heat sensitive	compounds like .		
	a) Antibiotics	b) Seras	c) Hormones	√d) All of these	
243	Disinfectants inhibit the	growth of vegetative cell an	d are used on .		
	a) Living materials	b) Living and non living	✓c) Non living materials	d) Living tissues	
	1	materials			
244	THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TW		en introduced to control micr	obial diseases included.	
	a) Immunization	b) Antisepsis	c) Chemotherapy	√ d) All of these	
245	The rays generally used	for sterilization process are			
	a) Alpha	b) Beta	✓c) Gamma	d) X-rays	
246	Antibiotics are synthesiz	red and secreted by certain b	pacteria , actinomycetes and		
	a) Algae	√b) Fungi	c) Lichen	d) Virus	
247	Misuse of antibiotic suc	h as penicillin can cause .			
	√a) Allergic reactions	b) Headache	c) Deafness	d) Mental retardness	
248	Chemotherapeutic chem	nical substances which are u	sed in treatment of Infectiou	s disease are .	
	a) Antibodies	b) Antigens	✓c) Antibiotics	d) Disinfectants	
249	Lovastain is used for low	vering blood .			
	a) Pressure	b) Glucose	✓c) Cholesterol	d) Neraspora	

Gue	ss Paper Biology inter	–I AI-Qa	adir Jinnah Science Ad	ademy Mallian Kalan
250	Which of the following is	not symptom of ergotism?		•
	a) Psychotic Delusion	b) Convulsion	c) Gangrene	√d) Indigestion
251	Which is used to inhibit fu	ingal growth ?		
	a) Lovastain	b) Cyclosporin	c) Griseofulvin	d) Ergotin
252	Aspergillus fumigates cau	ses aspergillosis but only in p	persons with defective imm	nune system such as
	a) HAV	b) Hepatitis	c) HIV	√d) AIDS
253	Citric acid is obtained from	m .		4-8
	a) Penicillium	√b) Aspergillus	c) Sacchromyces	d) Nevrospora
254	Which one is an example	of foliose lichens?		
	a) Ramalina	b) Bacidia	c) Lecanora	√d) Permelia
255	They are ecolically import	tant as bioindicators of air po	ollution .	
	✓a) Lichens	b) Mycorrhizae	c) Yeast	d) Viruses
256	Which one is not animal f	ungal disease?	- A - A - A - A - A - A - A - A - A - A	
	a) Ringworm	b) Athletes' foot	✓c) Powdery mildew	d) Histoplasmosis
257	Which one is not plant dis	sease ?		
	a) Potato wilt	b) Powdery mildew	c) Ergot of rye	√d) Histoplasmosis
258	Candida albicans, a yeast	, causes oral and vaginal thr	rush l.e. ,	
	a) Candidiasis	b) Candidosis	✓c) Both a & b	d) None of these
259	Which of the following is	not an example of poisonou	s mushroom ?	
	a) Death cap / death angel	b) Jack - O ' lantern mushroom	c) Amanita	✓d) Agaricus
260	unger	50000	r moss is .	
	a) Mycorrhiza	√b) Lichen	c) Funaria	d) Alga
261	Ginkgo belongs to class.		, 	1 / -
	a) Angiospermae	b) Filicinease	✓c) Gymnospermae	d) Anthoceropsida
262	The term gymnospermae	literally means .	, , ,	
	a) Enclosed seeded	√b) Naked seeded	c) Open seeded	d) Seedless
263	The megaporophylls bear	ing ovules are not folded an	d joined at the margins to	form an ovary in .
	a) Filicineae	b) Dicotyledonae	c) Monocotyledonae	√d) Gymnospermae
264	The megasporophylls bea	ring ovules are not folded ar	nd joined at the margins to	form an
	a) Ovule	b) Seed	✓c) Ovary	d) Fruit
265	In angiosperm, megaspor	re develop into female geme	tophyte which consist of .	
	a) 3 Cells	b) 5 Cells	✓c) 7 Cells	d) 9 Cells
266	n	nake up 235,000 of the 360,0	000 known species of plant	s .
	√a) Angiosperms	b) Gymnosperms	c) Ferns	d) Bryophytes
267	Female gametophyte in fl	owering plants is .		
	a) Ovary	b) Archegonium	✓c) Seed	d) Embryo sac
268	An ovule is an integumen	ted in dehiscent .		
	a) Microporangium	√b) Megasporangium	c) Sporangium	d) Seed
269	The interval of time unit t	he completion of next divisi	on is known as .	
	a) Interphase	✓b) Generation time	c) Reproductive time	d) Growth
270	The part of flower which	develops into fruit is .		
	a) Flower	b) Seed	c) Ovule wall	√ d) Ovary
271	Ovary wall develops into	the .		

Gue	ess Paper Biology inter	r –I AI-Q	<u>adır Jinnan Science A</u>	cademy Mallian Kalan
	✓a) Fruit	b) Vegetable	c) Seed coats	d) Pericarp
272	Double fertilization is a c	haracteristic of		
	a) Gymnosperms	√b) Angiosperms	c) Bryophytes	d) Mosses
273	Which one of the followi	ng is the characteristics of m	onocots?	
	a) 4 or 5 petals	✓b) Scattered vascular	c) Netted veins	d) Woody stems
		bundles in stem		
274	The class Angiospermae	is divided into two sub - class	ses according to the numb	500 1000
	a) Zygote	b) Seed	✓c) Embryo	d) None of these
275	Nonocot have			
	✓a) Parallel	b) Net	c) Both a & b	d) None of these
276	The asexual reproduction	n is sponges occurs by .		
	√ a) Budding	b) Fragmentation	c) Spores	d) Condia
277	The poriferans are pore -	bearing animals, commonly	called .	
	a) Nematodes	b) Cnidarians	✓c) Sponges	d) Roundworms
278	In most sponges this spo	ngocoel may be divided into	flagellated chambers or c	anals , lined by flagellated .
	✓a) Choanocytes	b) Pinacocytes	c) Amoebocytes	d) Phagocytes
279	The polyp is reduced and	l medusa is dominant .		
	a) Sea Anemon	b) Hydra	✓c) Jelly fish	d) Obelia
280	Sea anemone belongs to	phylum .		
	✓a) Coelentrata	b) Annelida	c) Arthropoda	d) Echoniodermate
281	Coral reefs are mostly fo	rmed of .		
	√a) Calcium carbonate	b) Silica	c) Chitin	d) Lignin
282	Haem portion of hemogl	obin contains an atom of .		
	a) Magnesium Mg++	b) Phosphorus K++	c) Calcium Ca++	√d) Iron Fe++
283	Which metal atom is pre	sent in chlorophyll ?		
	a) Cu	b) Fe	✓c) Mg	d) K
284	Chlorophyll a is .			
	a) Yellow green	√b) Blue green	c) Orange green	d) Yellow green dark
285	Correct molecular formu	la for chlorophyll " a " is .		
	√ a) C55H72O5N4Mg	b) C55H72O4N5Mg	c) C55H70O5N4Mg	d) C55H70O5N5Mg
286	Which wavelengths are r	mainly absorbed by chloroph	yll ?	
	✓a) Violet blue and	b) Violet and orange	c) Green and blue	d) Red and indigo
	orange red			
287	Magnesium is an import	ant nutrient in green plants a	s it is an essential compo	nent of .
	a) Protein	b) Chlorophyll	c) Hemoglobin	✓d) Glucose
288	The colour of chlorophyl	l b is .		
	a) Orange - red	√ b) Yellow - green	c) Blue - green	d) Orange - green
289	Photosystem II has the fo	orm of chlorophyll a which at	osorbs best light of .	
	a) 670 nm	√ b) 680 nm	c) 690 nm	d) 700 nm
290	The products of photosy	nthetic light reactions are .		
	a) ATP and NADH	√b) ATP , NADPH and O2	c) ATP and NADPH	d) ATP and NAD
291	Light can work in photos	ynthesis if only it is .		
	✓a) Absorbed	b) Reflected	c) Transmitted	d) Refracted
292	Plastocyanin protein con	tains .		

Gue	ess Paper Biology inter	-I Al-Q	adir Jinnah Science Ad	ademy Mallian Kalan		
	a) Iron	√b) Copper	c) Magnessium	d) Potassium		
293	Water splitting process of	photosynthesis releasing or	kygen is called .			
	a) Glycolysis	✓b) Photolysis	c) Hydrolysis	d) Electrolysis		
294	Which of the following is	electron carrier ?				
	a) Plastocyanin	b) Cytochromes	c) Plastoquinone	√d) All of these		
295	An enzyme NADP reducta	se transfers electrons from		-01.00-		
	✓a) Fd to NADP	b) NADP to Fd	c) Fd to NADPH	d) Fd to ADP		
296	Each photon of light excit	es.		. W.F A		
	a) Many electrons	b) 3 electrons	c) 2 electrons	✓d) Single electrons		
297	What is not produced dur	ing cyclic electron flow?				
	a) Oxygen	b) ATP	c) NADPH	√d) Both a & c		
298	Sugar is formed during.		A. 67			
	a) Dark independent	b) Dark dependent	✓c) Light independent	d) Light dependent		
	reactions	reactions	reactions	reactions		
299	The dark reaction consists	s of .				
	a) Carbon fixation	b) Reduction	c) Regeneration	√d) All of these		
300	During the dark reactions	of photosynthesis the main	process which occurs is .			
	a) Release of oxygen	b) Energy absorption	c) Formation of ATP	✓d) Adding of hydrogen to carbon dioxide		
301	For fixing of three molecules of CO2 in Clavin cycle , what is needed ?					
	a) 6 ATP + 9 NADPH	√ b) 9 ATP + 6 NADPH	c) 18 ATP + 9 NADPH	d) 3 ATP + 3 NADPH		
302	The NADPH molecule will	produce reducing power for	r the sugar in the .			
	a) Chemiosmosis	b) Cyclic phosphorylation	✓c) Calvin cycle	d) Electron transport chain		
303	For the synthesis of one n	nolecule of glucose Calvin cy	cle operate how many tim			
	a) Once	√b) Twice	c) Thrice	d) Four times		
304	Which of the following is	100000 0000000				
	a) Drosera	b) Dionea	✓c) Cuscuta	d) Sarracenia		
305	Lichen is a symbiotic relat	ionship between an alga an				
	a) Gymnosperm	b) Pteridophyte	✓c) Fungus	d) Angiosperm roots		
306	Root nodules are present	in.				
	a) All photosynthetic	b) Gymnosperms	c) Non - leguminous	√d) Leguminous planst		
	plants		plants	t a, againment prants		
307	All of the insectivorous pl	ants are .				
	a) Heterotrophs	√b) Autotrophs	c) Saprotrophs	d) Parasitic		
308	One of the following is no	t insectivorous plant .				
	a) Venus - fly trap	✓b) Cuscuta	c) Sundew	d) Pitcher plant		
309	of oxygen in and carbon of	lioxide out occurs because o	f difference in partial press	sures of these gases.		
	✓a) Diffusion	b) Effusion	c) Digestion	d) None of these		
310	Blood in the lungs is sepa	rated from the alveolar air b	y extremely thin membran	es of the and alveoli		
	a) Villi	b) Bronchi	✓c) Capillaries	d) Veins		
311	In human being the respir	ratory pigment is .		•		
		b) Biliubin	c) Myoglobin			

312	The maximum amount o of blood .	f oxygen which normal hur	nan blood absorbs and carrie	s at the sea - level is abou
	√ a) 200 ml / 100 ml	b) 40 ml / 100 ml	c) 100 ml / 20 ml	d) None of these
313	When oxygen pressure for haemoglobin decreases		s in many cells and tissues , t	he oxygen saturation of
	√ a) 60 mm	b) 40 mm	c) 20 mm	d) None of these
314	When carbon dioxide pro	essure increases , the oxyge	en tension	
	a) Increase	✓b) Decrease	c) Both a & b	d) None of these
315	Increased carbon dioxide	tension favours the greate	er liberation of from the blood	d to the tissue .
	✓a) Oxygen	b) Sulphur	c) Carbon mono oxicde	d) None of these
316		ormed when carbon dioxid	le combines with of ha	emoglobin .
	a) Oxygen	b) Amino group	c) Easter group	d) None of these
317	Aboutcarbon d	ioxide is carried as bicarbo	nate ion combined with sodiu	m in the plasma .
	a) 80 %	√ b) 70 %	c) 20 %	d) 50 %
318	Carbon dioxide per 100 r			A
	a) 50 ml	√ b) 54 ml	c) 98 ml	d) 99 ml
319	4 ml of carbon dioxide p	er 100 ml of blood as it pas		
	✓a) Lungs	b) Liver	c) Kidney	d) None of these
320	_ · ·	h severe paroxysm of diffic	P 1400 000 000 000 000 000 000 000 000 00	
	a) Sleeping	b) Spreading	c) Walking	d) Breathing
321	Respiratory distress sync	, , ,		1,7
	a) All new borns	b) Abults	✓c) Premature infants	d) Old age people
322	· ·	ung adults is the most pote		a, and ago people
	✓a) Lung cancer	b) Throat cancer	c) Kidney cancer	d) None of these
323	Tuberculoris is caused by	10000-10000-	9,	47 110110 01 111000
<u> </u>	✓a) Mycobacterium tuberculosis	b) Smoking	c) Streptococcus	d) None of these
324		oxygen can bind with a mo	lecule of myoglobin .	
	√a) 01	b) 02	c) 03	d) 04
325		as haemoglob		1 - 7
	a) Liver	b) Heart	✓c) Muscle	d) None of these
326	10000	inside the lungs and expelle		2,
	a) 1.5	b) 2.5	√c) 3.5	d) 4.5
327		ioxide present in air is abou		1 -7
	a) 0.01 to 0.02 %	b) 0.03 to 0.04 %	√ c) 0.04 to 4 %	d) 0.05 to 0.07 %
328	At rest we inhale and ex		V C/ 0.04 to 4 /0	4, 0.03 to 0.07 /0
-	a) 15 - 25 times	√b) 15 - 20 times	c) 10 - 15 times	d) 11 - 20 times
329	- Valley - Valley	urface is absorbed about .	0, 10 15 times	d/11 Lo times
323	√a) 1 %	b) 25 %	c) 50 %	d) 100 %
330	The shrinkage of protopl		0,50 %	4/ 100 /0
330	a) Incipient plasmolysis	b) Deplasmolysis	c) Guttation	(d) Diagnosticois
224	· · · · ·	panion cells communicate		✓d) Plasmolysis
331	a) Sieve pores	b) Casparian strip		d) Cell membranes
	L AL SIEVE DOTES	i di Casparian strib	√c) Plasmodesmata	i di Celi mempranes

Gue	ess Paper Biology inte	r –l Al∙	Qadir Jinnah Science	Academy Mallian Kalan
	a) 40 meters	√b) 50 meters	c) 60 meters	d) 70 meters
333	Path way of consulting i	nterconnected protoplasts	in roots cells is called.	·
	a) Apoplast	✓b) Symplast	c) Tonoplast	d) Protoplast
334	Roots bear a dense clust	er of tiny hair like structur	es which are extensions of	•
	✓a) Epidermal cells	b) Pericycle cells	c) Endodermal cells	d) Cortical cells
335	Apoplast pathway become	nes discontinous in endod	ermis due to .	-00.00m
	a) Pericycle	✓b) Casparian strip	c) Cortex	d) Xylem
336	They theory called , pres	sure - Flow Theory , is the	most acceptable theory for	the transport in the phloem
	a) Gymnosperm	√b) Angiosperms	c) Bryophytes	d) None of these
337	Water moves out of siev	e tube cell by , lowe	ering the hydrostatic pressu	ire .
	a) Diffusion	b) Effusion	✓c) Osmosis	d) None of these

Subjective Q.NO.2 (Ch=2,3,8,10,11)

	Most Important Questions	Ch		Most Important Questions	Ch
1.	What is heat capacity of water ? Give its importance.	2	2.	Define enzymes.	3
3.	Define protective role of water.	2	4.	Give role and examples of enzymes activator.	3
5.	Differentiate between Amylose and Amylopectin.	2	6.	Define cofactor with example.	3
7.	Differentiate between glycosidic and peptide bond.	2	8.	Differentiate between Co-factor and Co-enzyme.	3
9.	What are oligosaccharides?	2	10.	How is Prosthetic group different from Co- enzyme?	3
11.	What are lipids? Give two roles of waxes.	2	12.	Differentiate between co-factor and activator.	3
13.	What are waxes?	2	14.	What is difference between pepsin and pepsinogen?	3
15.	Give general formula for an Amino Acid.	2	16.	Give any two characteristics of enzymes.	3
17.	What are Globular proteins? Give examples.	2	18.	Define lock and key model of enzyme.	3
19.	Differentiate between Nucleoside and Nucleotide.	2	20.	Differentiate between reversible and irreversible enzyme inhibitors.	3
21.	What is phosphodiester linkage? Sketch.	2	22.	What are competitive and non-competitive enzyme inhibitors?	3
	Most Important Questions	Ch		Most Important Questions	Ch
23.	Most Important Questions Enlist four plant diseases caused by fugi.	Ch 8	24.	What are lichens? Write abour their ecological role.	Ch 8
23.	Enlist four plant diseases caused by fugi.		24.	What are lichens? Write abour their ecological	
	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite.	8		What are lichens? Write abour their ecological role.	8
25.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi.	8	26.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and	8
25. 27. 29.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi.	8 8	26. 28.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and karyogamy. What are sepatate and non-septate hyphae? What do you know about budding and parasexuality?	8 8
25. 27. 29.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi. Write down two similarities between plans and fungi. What are carnivorous fugi?	8 8 8	26. 28.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and karyogamy. What are sepatate and non-septate hyphae? What do you know about budding and	8 8 8
25. 27. 29. 31. 33. 35.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi. Write down two similarities between plans and fungi. What are carnivorous fugi? Write four important points of algae. Differentiate between fungus like protists and fugi.	8 8 8 8	26. 28. 30. 32.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and karyogamy. What are sepatate and non-septate hyphae? What do you know about budding and parasexuality? What are conidia and spores? What is meant by parasexuality? Give its importance.	8 8 8 8
25. 27. 29. 31. 33. 35.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi. Write down two similarities between plans and fungi. What are carnivorous fugi? Write four important points of algae. Differentiate between fungus like protists and fugi. 8- What is histoplasmosis?	8 8 8 8 8	26. 28. 30. 32. 34. 36.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and karyogamy. What are sepatate and non-septate hyphae? What do you know about budding and parasexuality? What are conidia and spores? What is meant by parasexuality? Give its importance. 18- Differentiate between conidiophores and coenocytic hypha.	8 8 8 8
25. 27. 29. 31. 33. 35.	Enlist four plant diseases caused by fugi. Differentiate between obligate and facultative parasite. Name the type and hyphae and sexual spores in sac fungi. Write down two similarities between plans and fungi. What are carnivorous fugi? Write four important points of algae. Differentiate between fungus like protists and fugi. 8- What is histoplasmosis?	8 8 8 8 8	26. 28. 30. 32. 34. 36.	What are lichens? Write abour their ecological role. Define lichens. Give its significance. Differentiate between plasmogamy and karyogamy. What are sepatate and non-septate hyphae? What do you know about budding and parasexuality? What are conidia and spores? What is meant by parasexuality? Give its importance. 18- Differentiate between conidiophores and	8 8 8 8 8

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	Most Important Questions	Ch		Most Important Questions	Ch
43.	What is hermaphrodite organism?	10	44.	Name four harmful effects of insects.	10
45.	P	10	46.	Give three basic characteristics of phylum chordate.	10
47.	What are corel reefs?	10	48.	What is polymorphism? Give example.	10
49.	Define swim bladder. Give its functions.	10	50.	Differentate between sac like and tube like digestive system.	10
51.	What is regeneration? Give example.	10	52.	What is metamorphosis?	10
53.	What are diploblastic animals?	10	54.	Differentiate between parazoa and eumetazoa.	10
55.	Define placenta. Write its functions.	10	56.	What are archaeopteryx?give its two characteristics.	10
57.	deuterostomes.	10	58.	Differentiate between polyps and medusases.	10
59.	Differentiate between gastropods and cephalopods.	10	60.	Differentiate between diploblastic and triploblastic organism.	10
61.	What is regeneration, give its importance.	10	62.	Write down affinities of echinoderm with hemichordates.	10
	Most Important Questions	Ch		Most Important Questions	Ch
63.	Give the importance of ATP.	11	64.	What are accessory pigments? Give their one importance.	11
65.	Define the term Bioenergetics.	11	66.	What is fermentation? Give its two types.	11
67.	What is glycolysis? Where it takes place in cell?	11	68.	Differentiate between antenna complex and reaction center.	11
69.	How action spectra can be obtained?	11	70.	Give the function spectrophotometer.	11
71.	What is cellular respiration?	11	72.	Define glycolysis. Where does it take place?	11
73.	What is payoff phase of glycolysis?	11	74.	Write the photolysis of water in photosynthesis.	11
75.	How does carbon dioxide absorb by cell wall of mesophyll cells?	11	76.	What is Z-scheme of photosynthesis?	11
77.	Define photosynthesis with equation.	11	78.	Differentiate between photophosphorylation and oxidative photophosphorylation.	11
79.	What do you mean by action spectrum.	11	80.	Define alcoholic fermentation. Write its equation.	11

Q.NO.3 (Ch=1,4,7,9,14)

Most Important Questions	Ch	Most Important Questions	Ch
1. What is biome?	1	Write down salient features of cell theory.	4
3. What is hydroponic culture technique?	1	4. What is endosytosis?	4
5. Differentiate between deductive and inductive reasoning.	1	What is endocytosis? Differentiate betwenn phagocytosis and pinocytosis.	4
7. Differentiate between micro and macromolecules?	1	Define differentially permeable membrane.	4
9. What is biome?	1	10. What are storage diseases? Give an example.	4
11. Write the name of four eras of geological times.	1	12. Give the important functions of cytoplasm.	4
13. What is pylatic lineage?	1	14. What is chromoplast? Give its functions.	4
15. Define theory. Give important features of a god theory.	1	 Give the chemical composition of primary and secondary cell wall. 	4
17. Define population, give its one example.	1	18. What are microfilaments? Give their functions.	4
19. What is deductive reasoning? Give one example.		20. Define fluid mosaic model of cell membrane.	4
21. Define parasitology.	1	22. Write down two functions of golgi apparatus.	4
23. Differentiate between anatomy and morphology.	1	24. Give the function of endoplasmic reticulum.	4
25. Define ecosystem with an example.	1	26. Define autophagosome.	4
27. Differentiate between gene therapy and chemotherapy.	1	28. What is resolution of human eye and electron microscope?	4
Most Important Questions	Ch	Most Important Questions	Ch

Guess Paper Biology inter –I	AI-C	Qadir Jinnah Science Academy Mallian Kala	n
29. What is sleeping sickness?	7	30. Differentiate between ovule and seed.	9
31. Write down functions and micro and macro nuceli in ciliates.	7	32. Why bryophytes are called amphibious plants?	9
 Write down four characteristics and green algae similar to plans. 	7	34. Differentiate between microphyll and megaphyll.	9
 Write down two diffenreces between fungi and oomycotes. 	7	36. Define double fertilization.	9
37. What are choanoflagellates?	7	38. Write down two steps involved in evolution of seed.	9
39. What are protists? How are they different from animals and plants?	7	40. Describe adaptation of bryophytes to land habitat.	9
41. What are trichonymphas?	7	42. Write two advanced characteristics of anthoceropsida sporophyte.	9
43. How algae differ from plants?	7	44. What are gymnosperms? Give an example.	9
45. Write down two characteristics of ciliates.	7	46. Differentiate between bryophytes and tracheophytes.	9
47. How ciliates are different from other protozoans?	7	48. Define cercinate vernation.	9
49. Write down two characteristics of apicomplexans.	7	50. Define ovule and embryo sac.	9
51. What is chlorella? Give its importance.	7	52. What are fronds?	9
53. Write down two characteristic of dinoflagellates.	7	 Write botanical name of two plants belong to family solanaceae. 	9
55. Write four important features of algae.	7	 Differentiate between microgametophyte and megagametophyte. 	9
57. How do flagellates get food?	7		
Most Important Questions	Ch	Most Important Questions	Ch
58. What is guttation?	14	 59. Differentiate between single and double circuit heart. 	14
60. Define immunity.	14	61. What is humoral immune response.	14
62. Differentiate between active and passive immunity.	14	63. Differentiate between thrombus and embolus.	14
64. Differentiate between plasmolysis and deplasmolysis.	14	65. Describe CO ₂ concentration in artery and venous blood.	14
66. What is single circuit heart? Give an example.	14	67. What is imbibition?	14
68. Differentiate between apoplast and symplast pathway.	14	69. What is honey dew? Give its composition.	14
70. What is pressure potential?	14	 What are factors affecting capacity of hemoglobin to combine with oxygen. 	14
72. What are blue babies?	14	73. What do you know about bleeding in plants?	14
74. What is pressure flow theory? Who proposed it?	14	75. What is cell-mediated and humoral immune response?	14

Q.NO.4 (Ch=5,6,12,13)

		2,2,22,227	
Most Important Questions	Ch	Most Important Questions	Ch
Write down four characteristics of viruses.	5	2. Define species and virology.	5
3. What are pocks?	5	4. What are prions?	5
Write four names of viral diseases common in human beings.	5	Define binomial nomenclature. Give an example.	5
7. What are symptoms of small pox?	5	 Differentiate between procariotique and eucariotique. 	5
Sketch and label diagram of bacteriophage.	5	 Write down five postulates of germ theory of disease by Robert Koch. 	5
11. Differentiate between gram positive and gram negative bacteria.	6	12. Name three general shapes of bacteria and explain only one.	6
13. Write down misuses of antibiotics.	6	14. Differentiate between tetrad and sarcina.	6

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15. What are pilli? Give their functions.	6	Differentiate between lophotrichous and amphitrichous.	6
17. Differentiate between streptococcus and	6	18. Differentiate between amphitrichous and	6
staphylococcus bacteria.		peritrichous bacteria.	
Most Important Questions	Ch	Most Important Questions	Ch
19. What is rubisco? Give its functions.	13	20. What is respiratory distress syndrome?	13
21. What are spiracles? Give their functions.	13	22. What is diving reflex?	13
23. How air is belter medium for respiration than water.	13	24. What is lungs cancer?	13
25. What is asthma? Give its cause.	13	26. Why oxygen can be easily obtained from air as compared to water?	13
27. Write different ways of respiration in frog.	13	28. How does respiration take place in earthworm?	13
29. What is larynx or voice box?	13	30. What are alveoli? Give their dunctions.	13
31. What is diaphragm? In which group of animals it is found?	13	32. Give the composition of breath air in humans.	13
33. Differentiate between bronchi and bronshioles.	13	34. Give two properties of respiratory surfaces in animals.	13
35. What is emphysema?	13	36. What is photorespiration?	13
37. Write two properties of respiratory surfaces.	13	38. Differentiate between pulmonary and cutaneous respiration.	13
39. What is chlorosis and what is their cause?	12	40. Write only two functions of oral cavity.	12
41. What are the main reason of chlorosis in plants?	12	42. Define peristalsis.	12
43. Discuss parasitic nutrition in plants.	12	44. What is the advantages of a digestivetract as compared with a digestive cavity?	12
45. What are root nodules? Give their role.	12	46. Differentiate between chyme and bolus.	12
47. What is detritus feeding? Give examples.	12	48. Describe the role of trypsin in digestion.	12
49. What is filter feeding?	12	50. Give two functions of human liver.	12
51. What are fluid feeders? Give example.	12	52. What is bile? Give its functions.	12
53. Differentiate between facultative and obligate parasite.	12	54. Define Villi? write down functions of Villi.	12
55. Define gastrovascular cavity with example.	12	56. Give the role of large intestine of human.	12
57. Define sac like digestive system and tube like digestive system regarding their efficiency.	12	58. What is Dyspepsia?	12
59. Differentiate between Herbivores and Carnivores.	12	60. How adipose tissue is formed?	12
61. Differentiate between ingestion and Egestion.	12	62. Write down causes and treatment of anorexia nervosa.	12
63. Differentiate between detritivores and omnivores.	12	64. What is ulcer?	12
65. Differentiate between absorption and assimilation	12	66. Write only two functions of oral cavity.	12

LONG QUESTIONS

Question No. 5							
1	(a)	How study of Biology helped mankind to improve production of food?	(b)	Soil water moves and reaches xylem tissues by various pathways, explain.			
2	(a)	What is the role of study of Biology in the welfare of mankind in the field of protection and conservation of environment?	(b)	Discuss two main types of immunity.			

3 (a) Give various components and functions of Lymphatic System. Question No. 6 1 (a) Explain mutualistic nutrition in fungi. 2 (a) Describe asexual reproduction in fungi. (b) Describe biological properties and import water. (b) What are polysaccharides? Describe differ types and give examples. 3 (a) Explain various economic gains and losses due to fungi. Question No. 7 1 (a) Explain about use and misuse of antibiotics. (b) Describe the different adaptive characters for the						
1 (a) Explain mutualistic nutrition in fungi. (b) Describe biological properties and import water. 2 (a) Describe asexual reproduction in fungi. (b) What are polysaccharides? Describe differ types and give examples. 3 (a) Explain various economic gains and losses due to fungi. (b) Write the Watson and Crick model of DN Question No. 7						
2 (a) Describe asexual reproduction in fungi. (b) Water. What are polysaccharides? Describe difference and give examples. Write the Watson and Crick model of DN to fungi. Question No. 7 Explain about use and misuse of antibiotics. Describe the different adaptive characters for the control of the control of the different adaptive characters for the control of the control o	Question No. 6					
3 (a) Explain various economic gains and losses due to fungi. (b) types and give examples. Write the Watson and Crick model of DN Question No. 7	ance of					
Question No. 7	rent					
Evoluin about use and misuse of antihiotics Describe the different adaptive characters for	Α.					
Explain about use and misuse of antibiotics. Describe the different adaptive characters for	Question No. 7					
1 (a) Explain about use and misuse of antibiotics. (b) Explain about use and misuse of antibiotics. terrestrial environment in bryophyte.						
2 (a) Discuss nutrition in bacteria. (b) Discuss evolution of megaphyll leaf.						
3 (a) Describe habitat, structure and reproduction in nostoc. (b) Describe prothallus of adiantum and What is alternation of generation? Give its significance	e					
Question No. 8						
1 (a) Describe some viral diseases, which are common in Pakistan. (b) What is photo phosphotylation? Explain non-photo phosphorylation.	cyclic					
2 (a) What is hepatitis? Give its symptoms and discuss its three common types. (b) Give in detail the phases of Calvin cycle.						
3 (a) Describe lytic cycle of bacteriophage (with diagram). (b) Sketch Krebs Cycle, (no description).						
Question No. 9						
1 (a) Discuss structure and functions of endoplasmic reticulum. (b) Give the role of large and small intestine in his beings.	ıman					
2 (a) What are plastids? Explain the structure and function of chloroplast. Draw figure. (b) Describe digestion in hydra.						
3 (a) What are lysosomes? Explain their phagocytic role with the help of diagram. (b) Discuss the process of nutrition in insectivorous plants.						